

$$40. \quad y - 2 = -8$$

$$3(y - 2) = 3(-8)$$

$$36. \quad 5 + b = 13$$

$$b = 8$$

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$$38. \quad g - t = n$$

$$g = n + t$$

$$\pi$$

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Warmup

Boards

Name the property that justifies the statement.

1. $(-8 + 8) + 15 = 0 + 15$ *Add. Inv. Subst.*
2. $5(8 - 6) = 5(8) - 5(6)$ *Distr.*
3. $3 + 4 = 4 + 3$ *Comm.*
4. $5 + x = 5 + x$ *Reflexive*
5. If $3 + x = 8$, and $8 = 2x - 2$, then $3 + x = 2x - 2$. *Transitive*
6. $(9 + 5) + 17 = 9 + (5 + 17)$ *Assoc.*
7. If $2 - x = 4$, then $4 = 2 - x$. *Symm.*
8. $9 \cdot \frac{1}{9} = 1$ *Inv.*
9. If $3x + 8x = 55$, then $11x = 55$ *Subst.*
10. If $3x + 8 = 32$, then $3x = 24$ *Subtr.*

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Justify the steps

- | | |
|------------------------|------------------|
| 1. $5(x + 6) = 38 + 7$ | 1. <i>Given</i> |
| 2. $5x + 30 = 38 + 7$ | 2. <i>Distr.</i> |
| 3. $5x + 30 = 45$ | 3. <i>Subst.</i> |
| 4. $5x = 15$ | 4. <i>Subtr.</i> |
| 5. $x = 3$ | 5. <i>Div.</i> |

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Justify the steps

- | | |
|---------------------------|---------------|
| 1. $18 + 3x = 6(5x - 21)$ | 1. Given |
| 2. $6(5x - 21) = 18 + 3x$ | 2. Symm |
| 3. $30x - 126 = 18 + 3x$ | 3. Distr |
| 4. $27x = 144$ | 4. Add/Subtr. |
| 5. $x = 5\frac{1}{3}$ | 5. Div. |

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1.3 Solving Equations

Change the verbal expression/sentence into an Algebraic expression/equation

1. Twice the sum of a number and 6

$$2(x + 6)$$

2. The square of a number increased by five times the number

$$x^2 + 5x$$

3. Four times the difference of a number and six

$$4(n - 6)$$

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4. The sum of fourteen and nine is twenty-three.

$$14 + 9 = 23$$

5. Six is equal to negative five plus a number.

$$6 = -5 + n$$

6. Two less than seven times a number is nineteen.

$$7n - 2 = 19$$

7. A number divided by three is equal to four times the number.

$$\frac{n}{3} = 4n$$

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Solve for the indicated variable.

$$F = \frac{mv^2}{r} \quad \text{for } m$$

$$Fr = mv^2$$

$$\frac{Fr}{v^2} = m$$

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$$A = P(1 + rt) \text{ for } t$$

$$A = P + Prt$$

$$\frac{A - P}{Pr} = \frac{Prt}{Pr}$$

$$\frac{A - P}{Pr} = t$$

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Solve for h.

$$A = lwh + lw^2$$

$$\frac{A}{lw} - w = h$$

$$\frac{A - lw^2}{lw} = h$$

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Solve for l.

$$A = lwh + lw^2$$

$$A = l(wh + w^2) \quad \underline{\underline{\text{Factor}}}$$

$$\frac{A}{wh + w^2} = l$$

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$$S = \frac{rl - a}{r - 1} \text{ for } r$$

$$S(r - 1) = rl - a$$

$$Sr - S = rl - a$$

$$Sr - rl = S - a$$

$$r(S - l) = S - a \quad r = \frac{S - a}{S - l}$$

$$r = \frac{S - a}{S - l}$$

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HW
p24-25
#s 19-27 odd, 41-61 odd, 62

Aug 25-10:28 AM